

# WHELEN<sup>®</sup>

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## Installation Guide: H27HACP Halogen System (with 3TERM Flasher)

### Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr the holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post.**
- **If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, do not stare directly into these lights at a close distance. Momentary blindness and/or eye damage could result.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, use only soap and water to clean the lamp lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.**
- **It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.**
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**

**WARNING:** Replacing any halogen bulb requires safety glasses to prevent injury. Do not handle the bulb with bare hands. Use gloves to prevent possible injury.

**WARNING:** All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and **FUSED** at the battery to carry that load. **DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**

### H27HACP System / Rear Taillight Mount:

1. Mount the two H27HACPs into your taillight assemblies as described below.
2. Mount the Flasher to the vehicle frame sidewall. Attach the ground lug to the BLACK wire on the flasher and then to the vehicle chassis.
3. Find the amp connector with the BLACK and BLUE wires attached and plug it into the passenger side light. Attach a ground lug to the BLACK wire on the connector and secure it to the vehicle chassis. Run the BLUE wire to the flasher, attach a faston connector to the end and plug it into the flasher.

**WARNING! DO NOT INSTALL THE FUSE UNTIL THE ENTIRE INSTALLATION IS FINISHED.**

4. Find the amp connector with the YELLOW and BLACK wires attached and plug it into the drivers side light. Attach a ground lug to the BLACK wire on the connector and secure it to the vehicle chassis. Attach a faston connector to the YELLOW wire and plug it into the flasher as shown in the wiring diagram.
5. Find the 20 ft. RED wire, attach a faston connector to one end and plug it into the remaining terminal of the flasher.
6. Run the RED wire to the place on the dashboard that you want the On/Off switch. After making sure you have enough wire to reach the switch, cut and attach the wire to one of the switch wires using a butt connector. Attach the remaining RED wire to the other switch wire and run it to the battery.
7. Attach the supplied in-line fuse holder to the RED wire as shown and attach the wire to the positive terminal of the battery.
8. Install the switch into your dashboard, install the fuse into the fuse holder and the installation is finished.

### H27HACP System / Headlight Mount:

1. Mount the two H27HACPs into your headlight or side marker assemblies as described below.

2. Find a flat spot on the wheel well and mount the flasher. Attach the ground lug to the BLACK wire then to the vehicle chassis.
3. Find the amp connector with the YELLOW and BLACK wires attached and plug it into the drivers side light. Attach a faston connector to the YELLOW wire and plug it into the flasher. Attach a ground lug to the BLACK wire and secure it to the chassis.
4. Find the amp connector with the BLUE and BLACK wires attached and plug it into the passengers side light. Attach a ground lug to the BLACK wire and secure it to the chassis. Run the BLUE wire to the flasher, attach a faston connector to the end and plug it into the flasher.
5. Find the 20 ft. RED wire and attach a faston connector to one end, then plug it into the flasher where shown.
6. Run the RED wire to the spot on your dashboard that you want your switch to be. Make sure you have enough wire, then cut it and splice it onto one of the wires on the switch.

**WARNING! DO NOT INSTALL THE FUSE UNTIL THE ENTIRE INSTALLATION IS FINISHED.**

7. Splice the RED wire you have left to the other switch wire and run it to the battery. Attach the supplied in-line fuse holder and attach the other end to the positive battery terminal. Install the fuse and test the system.

### Installation of a Halogen Lamp into an Automotive Headlight, Taillight or Side Marker

1. Select the mounting location for the halogen lamp, keeping in mind that the lamp will share the same reflector as the headlight, taillight or side marker. Make sure that the halogen lamp does not interfere with the proper operation of the light.
2. Remove the headlight, taillight or side marker reflector assembly from the vehicle. Choose a surface in the rear or bottom of the housing which is as flat as possible. If mounting into a side marker, you will have to mount it on the bottom. Using a 1" hole saw, cut a clearance hole for the halogen lamp into the housing. Using a twisting motion, insert the lamp assembly into the reflector housing until it snaps in. Do not force the lamp into position. To aid the installation, apply a drop of liquid soap to the outer surface of the black rubber housing.



